

IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. Nameplates.
2. Labels.
3. Wire markers.
4. Conduit markers.
5. Stencils.
6. Underground Warning Tape.
7. Lockout Devices.
8. Engraved Device Plates

B. Related Sections:

1. Division 09 - Painting and Coating: Execution requirements for painting specified by this section.

1.02 SUBMITTALS

A. Division 01 - Submittal Procedures: Submittal procedures.

B. Product Data:

1. Submit manufacturer's catalog literature for each product required.

1.03 CLOSEOUT SUBMITTALS

A. Division 01 - Execution and Closeout Requirements: Requirements for submittals.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Division 01 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.

B. Accept identification products on site in original containers. Inspect for damage.

C. Accept materials on site in original factory packaging, labeled with manufacturer's identification.

D. Protect insulation from weather and construction traffic, dirt, water, chemical, and mechanical damage, by storing in original wrapping.

1.05 ENVIRONMENTAL REQUIREMENTS

A. Division 01 - Product Requirements: Environmental conditions affecting products on site.

B. Install labels and nameplates only when ambient temperature and humidity conditions for adhesive are within range recommended by manufacturer.

PART 2 PRODUCTS

2.01 NAMEPLATES

- A. Product Description (Normal Power): Micarta plastic with engraved black letters on white background.
- B. Product Description (Emergency Power): Micarta plastic with engraved white letters on red background.
- C. Provide nameplates of minimum letter height as scheduled below.
 - 1. Panelboards and Switchboard Centers: 1/4 inch; identify equipment designation, voltage rating, and source.
 - 2. Individual Circuit Breakers, Switches, and Motor Starters in Switchboards and Motor Control Centers: 1/8 inch; identify circuit and load served, including location.
 - 3. Individual Circuit Breakers, Enclosed Switches and Motor Starters: 1/8 inch; identify voltage rating, ampere rating and load served including location.
 - 4. HVAC and Plumbing Control Equipment: 1/8 inch; identify equipment designation and equipment served including location.
- D. Minimum nameplate thickness: 1/16 inch.

2.02 WIRE MARKERS

- A. Description: Cloth tape, split sleeve, or tubing type wire markers.
- B. Locations: Each conductor at panelboard.
- C. Indicate circuit on junction boxes.
- D. Legend:
 - 1. Power and Lighting Circuits: Branch circuit or feeder number shall be coordinated and documented by Design/Builder.
 - 2. Control Circuits: Control wire number as indicated on schematic and interconnection diagrams or shop drawings.

2.03 UNDERGROUND WARNING TAPE

- A. Description: 4 inch wide plastic tape, detectable type, colored red with suitable warning legend describing buried electrical lines.

2.04 ENGRAVED WALL PLATES

- A. Covered plates for wall switches and receptacles specified in Division 26 Wiring Devices.
 - 1. Letter size: 1/8 inch high letters.
 - 2. Color (Normal Circuits): Engraving color shall be black.
 - 3. Color (Emergency Circuits): Engraving color shall be red.

PART 3 EXECUTION

3.01 PREPARATION

- A. Degrease and clean surfaces to receive adhesive for identification materials.
- B. Prepare surfaces in accordance with Division 09 for stencil painting.

3.02 INSTALLATION

- A. Install identifying devices after completion of painting as required.
- B. Nameplate Installation:
 - 1. Install nameplate parallel to equipment lines.
 - 2. Install nameplate for each electrical distribution and control equipment enclosure with corrosive-resistant mechanical fasteners, or adhesive.
 - 3. Install nameplates for each control panel and major control components located outside panel with corrosive-resistant mechanical fasteners, or adhesive.
 - 4. Secure nameplate to equipment front using pins or adhesive tape.
 - 5. Provide nameplates to identify all circuits in the service distribution and power distribution panelboards; motor control centers; separately mounted starting switches; disconnecting switches; motor control pushbutton stations; transformers; telephone cabinets, etc. Also indicate source of power (panel and circuit number).Switchboards.
- C. Label Installation:
 - 1. Install label parallel to equipment lines.
 - 2. Install label for identification of individual control device stations.
- D. Wire Marker Installation:
 - 1. Install wire marker for each conductor at panelboard.
 - 2. Mark data cabling at each end. Install additional marking at accessible locations along the cable run.
- E. Stencil Installation: Apply stencil painting in accordance with Division 09.
- F. Underground Warning Tape Installation: Install underground warning tape along length of each underground duct bank.
- G. Engraved Wall Plates: Engrave all wall plates for wall switches and receptacles.

END OF SECTION